

This paper describes objective technical results and analysis. Any subjective views or opinions that might be expressed in the paper do not necessarily represent the views of the U.S. Department of Energy or the United States Government.

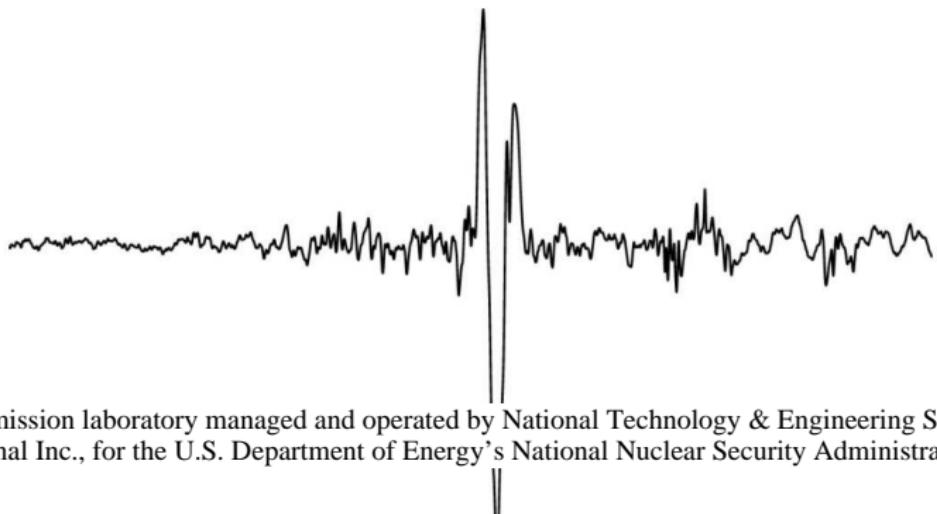
balloon

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The Source Physics Experiment

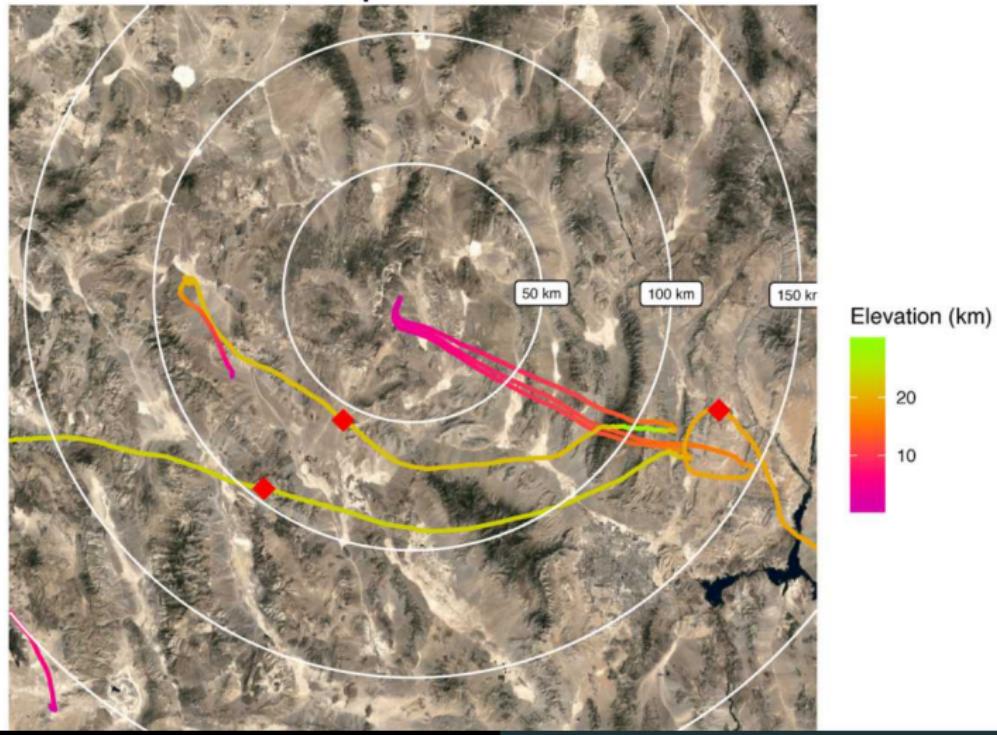
The Source Physics Experiment was a set of underground chemical explosions.

- ▶ Investigate S wave generation by explosive sources
- ▶ Record acoustic and other signals generated by the event
- ▶ Improve our ability to detect and characterize nuclear tests

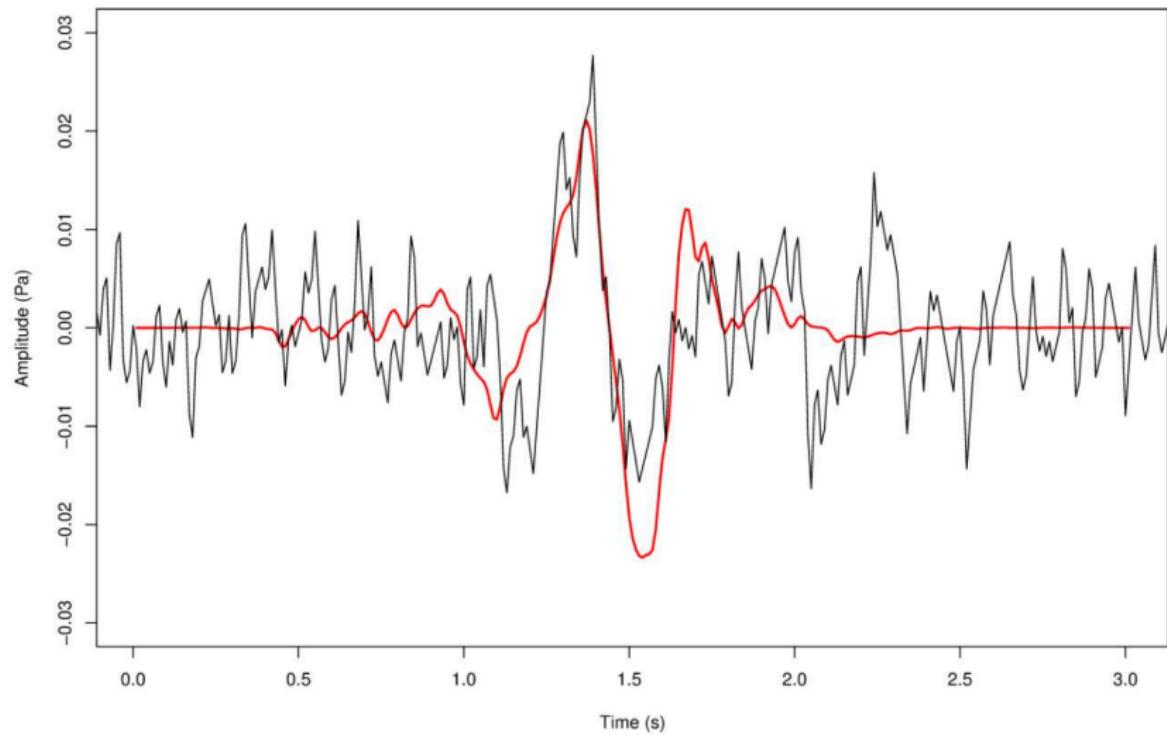
An opportunity to record directional sound from the air

The DAG-4 event

10 ton TNT equivalent chemical explosion at 52 m
depth in alluvium

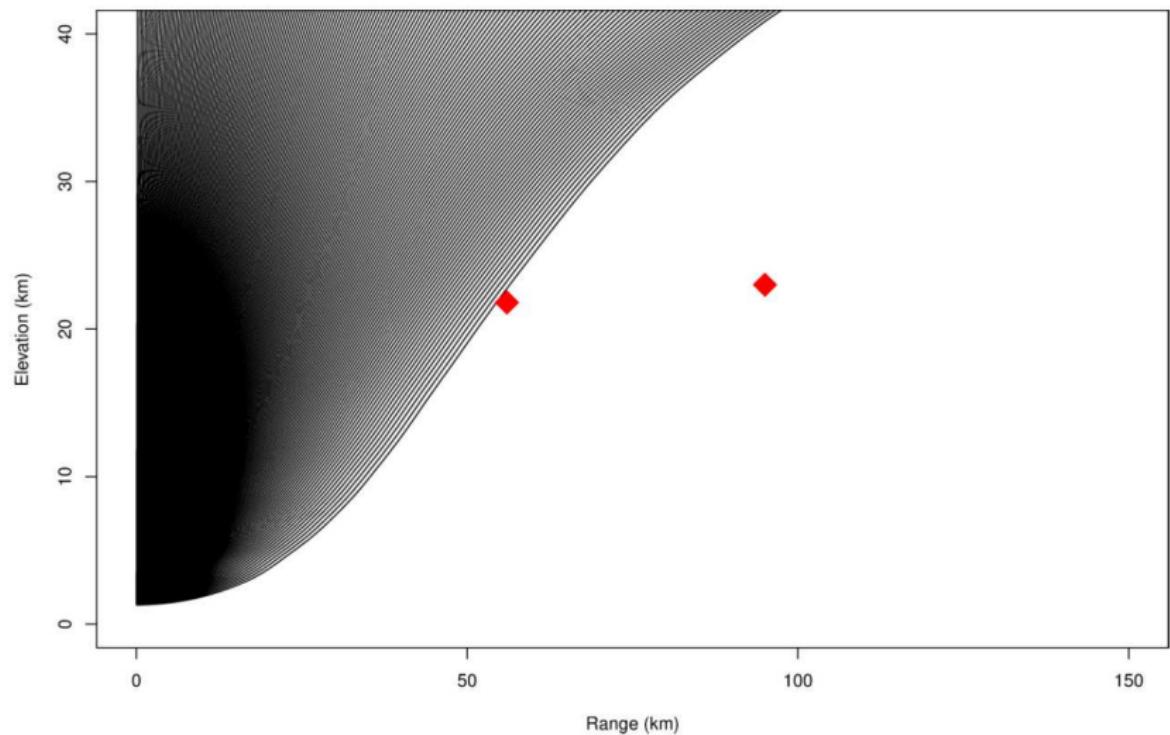


Signal on Heliotrope



56 km range, 21 km altitude

Heliotrope Ray Tracing



Acknowledgments

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